the insects recorded in the above table in accordance with his generic synopsis.

I have excluded the woolly slugs from this table because *juglandis* is clearly referable to the Selandriinæ. There is probably some error connected with the account of the other woolly slug, *Monaphadnus caryæ* of Norton and Packard, and it will be found to be wrongly referred to *Monophadnus*.

NEW SPECIES OF HETEROCERA FROM TROPICAL AMERICA.

BY WILLIAM SCHAUS.

SYNTOMIDÆ.

Cosmosoma dorsimacula, sp. nov.

Head and palpi black. Legs brown; fore coxæ white. Collar and thorax orange, the latter with two large black subdorsal spots; a minute black point anteriorly on patagiæ. Abdomen orange with four subdorsal black spots; the last three segments entirely black. Wings hyaline, the margins black, the outer margins and apices more widely so; a large black spot at the end of the cell on the primaries. Expanse, 37 mm.

Habitat: Balzapamba, Prov. of Bolivar, Ecuador.

Cosmosoma biseriatum, sp. nov.

Head and palpi black. Collar black with two metallic blue spots. Thorax black anteriorly, orange posteriorly with a large black subdorsal spot containing some metallic blue scales; the patagiæ orange internally streaked with black; thorax below dark yellow, the legs brown streaked at the base with yellow. Abdomen above orange, the last four segments black; the orange portion with lateral transverse black bands, interrupted dorsally. A lateral row of metallic blue spots on all the segments. Underneath the abdomen is yellow; the last segments black and a black band on basal segment. Wings hyaline with black margins, very wide on the outer margins and at apices. A large black spot at the end of the cell on primaries; a large orange spot at the base of the wings. Underneath the wings at the base are yellow. Expanse, 41 mm.

Habitat: Balzapamba, Prov. of Bolivar, Ecuador.

Cosmosoma bolivari, sp. nov.

Head and palpi black. Collar anteriorly black, posteriorly yellow. Thorax yellow, with subdorsal black spots. Abdomen dorsally brown, the first and sixth seg-

ments yellow, the first having a black subdorsal spot ; anal scales yellow. Underneath yellow, the last two segments black. Legs light brown, tarsi yellowish. Wings hyaline ; the margins finely black ; the apices, inner angle and base of primaries more widely black ; costal margin of primaries luteous. Expanse, 23 mm.

Habitat : Balzapamba, Prov. of Bolivar, Ecuador.

Chrostosoma cardinale, sp. nov.

Head and palpi black. Collar, thorax and abdomen red ; tibiæ and tarsi brown. Wings hyaline, veins and margins finely black ; apices and inner margin of secondaries more heavily black. A red spot at the base of the primaries and some red scales along the inner margin of secondaries. Underneath with the base of the wings red. Expanse, 28 mm.

Habitat : Colombia.

Tsanthrene pentagona, sp. nov.

Body below, legs, head and palpi bright yellow. Collar yellow with a transverse black streak. Thorax black, patagiæ with a central yellow streak. Abdomen above yellow, the last five segments broadly banded with black. Wings hyaline, the veins and fringe reddish brown. Expanse, 24 mm.

Habitat : Peru.

Agunaix lacrumans, sp. nov.

Body black. Primaries smoky black, darkest on the basal half. Secondaries semi-hyaline, black. Expanse, 26 mm.

Habitat : Peru.

The genus *Agunaix* is new and will be described by Sir George Hampson in his work on the Syntomidæ.

Paramya flavia, sp. nov.

Palpi and legs light brown. Body otherwise pale yellow. Wings hyaline, veins and margins finely light brown, the apex and outer margins of primaries, also the inner margin of secondaries more broadly so. Discocellular black. Base of the wings light yellow. Expanse, 23 mm.

Habitat : Castro, Parana.

Pheia hæmapera, sp. nov.

Body black ; two large crimson spots on collar. Anus crimson. Coxæ and base of abdomen below cream color. Wings hyaline, veins and margins black, most heavily marked at apices and inner angle. A black spot at the end of the cell on primaries. Expanse, 22 mm.

Habitat : Sta. Catherina, Brazil.

Æthria rubipectus, sp. nov.

Palpi black spotted with white. Head black. Thorax black, the collar and patagiæ finely edged with white. Underneath thorax is crimson. Abdomen metallic

blue, the anal hairs very long and black. Wings hyaline, veins and margins finely black; the apex of primaries broadly black. Expanse, 22 mm.

Habitat: San Domingo, W. I.

Napata unifascia, sp. nov.

Palpi and head black speckled with metallic blue. Thorax black mottled with metallic blue. Abdomen above dark metallic blue, below with a white ventral stripe. Legs black streaked with white. Primaries black, the basal half of inner margin metallic blue; a broad median crimson fascia from the subcostal vein and narrowing towards inner angle. Secondaries dark metallic blue with the extreme margin and fringe black. Underneath the same, but on the primaries there is a cluster of metallic blue scales beyond the crimson fascia, and the secondaries have the outer margin and apex more broadly black. Expanse, 27 mm.

Habitat: Chimbo, Ecuador.

Trichodesma obliqua, sp. nov.

Head brown, frons cream color. Thorax and collar brown finely edged with yellowish. Abdomen brown circled with fine yellow lines. Primaries brown; a broad yellow oblique band from the costa, not reaching the inner angle. Secondaries yellow, with the margins broadly black. Underneath the same. Expanse, 30 mm.

Habitat: Rio Janeiro.

SATURNIDÆ.

Automeris naranja, sp. nov.

Primaries olive gray to brown, sometimes shaded with paler in the disk; the antemedial line wavy, indistinct; the postmedial line somewhat curved inwardly from apex, to beyond center of inner margin; this line outwardly dark, inwardly pale. Discal spot large, darker and diffuse, outlined by five black points. Secondaries with the costal and inner margin brownish, with a darker subterminal shade inwardly limited by a black line which also separates it from a deep orange postmedial space which contains the ocellus, the latter being brown with a gray centre and broadly circled with black. Below wings grayish with a dark straight postmedial line and a black discal spot on primaries. Thorax colored like primaries, abdomen blackish above, grayish below. Expanse, ♂, 64 mm.; ♀, 77 mm.

Habitat: Rio Grande do Sul.

Automeris zaruma, sp. nov.

Head and thorax dark velvety brown; abdomen reddish. Primaries yellowish brown, with basal space and postmedial shadings darker, an oblique and irregular bright yellow, antemedial line; the postmedial black, inwardly shaded with yellow, from apex to inner margin at two thirds from base. Secondaries with costal and inner margins reddish; outer margin brownish; a black subterminal band adjoining the larger median space of bright yellow; this yellow space crossed by a black postmedial line; ocellus brown, broadly circled with black and containing a cluster of gray scales crossed by a white line. Underneath the wings are reddish; a large black discal

point with white centre on primaries, a minute white discal point on secondaries. Indistinct dark postmedial lines and subterminal shades. Expanse, ♂, 81 mm.

Habitat: Zaruma, Ecuador.

Automeris castrensis, sp. nov.

Thorax dark brown; abdomen red; anal hairs brownish. Primaries narrow with inner angle rounded, also apex rounded, light brown with an oblique indistinct line from apex to middle of inner margin; this line is inwardly paler, outwardly darker than the ground color; discal spot round small with paler center. Secondaries bright yellow the outer margin narrowly brown, separated from yellow portion by a black line. Ocellus large, black, with grayish centre crossed by a white line. Underneath wings brown with a large round black discal spot on each wing. Expanse, 55 mm.

Habitat: Castro, Parana.

Dirphia muscosa, sp. nov.

Primaries thickly mottled with greenish and black hairy scales; an oblique angular line from the costa at one-third from the base to vein 2, where it is joined by the postmedial line which is crenulate. The lines are black, outwardly shaded with grayish; a dark spot in the cell; in the ♀ the lines do not meet, but extend to the inner margin some distance apart. Secondaries brownish gray in the ♂, fawn color in the ♀, thickly speckled with dark scales, the outer margin and a subterminal line darker in the ♂; in the ♀ only a subterminal line. Thorax same color as primaries; abdomen orange with transverse black bands in the ♂. Expanse, ♂, 80 mm.; ♀, 90 mm.

Habitat: Rio Grande do Sul.

NOCTUIDÆ.

Chorizagrotis sorella, sp. nov.

Body grayish brown, the collar slightly reddish. Primaries brown, faintly tinged with reddish beyond the reniform. Space before the spots dark brown, spots themselves of ground color finely outlined in dark brown; claviform the same; antemedial line geminate, indistinct, forming three curves; postmedial very fine, almost punctiform; subterminal wavy, indistinct with some sagittate spots between veins 3–5. Secondaries semi-hyaline, smoky brown, darkest along the outer margin. Underneath whitish powdered with brown scales; traces of postmedial line and discal spots distinct on secondaries. Expanse, 39 mm.

Habitat: Las Vigas, Cobre de Perote, Mexico.

According to Prof. J. B. Smith this species is allied to *Chorizagrotis soror* Smith.

Peridroma scortea, sp. nov.

Body grayish brown. Primaries light brown; some grayish scales at the base on the inner margin, in the orbicular reniform, along the veins and terminal space. These grayish shades are very indistinct. Antemedial line only visible on costa.

Postmedial fine crenulate. A fine terminal black line, saggitate on veins. Secondaries whitish hyaline, smoky along the outer margin. Expanse, 34 mm.

Habitat: Orizaba, Mexico.

Mamestra gavisa, sp. nov.

Body brown. Primaries dull brown, somewhat shaded with rufous; a black streak at the base; the veins indistinctly grayish; the antemedial pale fawn color finely edged with dark scales; the orbicular and claviform finely outlined with dark scales; the reniform grayish with a distinct white line outwardly, the postmedial fawn color, slightly crenulate and finely edged with dark scales; the terminal space except at apex dark gray with a terminal row of yellowish spots; the fringe mottled gray and fawn color. Secondaries brown, pale at the base. Underneath a postmedial line and discal spot on both wings. Expanse, 32 mm.

Habitat: Las Vigas, Cobre de Perote, Mexico.

Mamestra ciniva, sp. nov.

Head and thorax gray. Abdomen light brown. Primaries silvery gray, thickly speckled with white scales; an interrupted black basal line; the antemedial line black, oblique from the costa to middle of inner margin; the median space a trifle darker; some subterminal black scales; a terminal gray line; fringe white with two gray lines; the orbicular and reniform very indistinct and faintly outlined with black. Secondaries whitish; the veins and outer margin smoky. Expanse, 22 mm.

Habitat: Oaxaca, Mexico.

This species somewhat resembles *M. anguina* Gr., and *M. vecina* Gr., but is much smaller.

Hadena dyschoroides, sp. nov.

Body reddish brown. Primaries light reddish brown, the terminal space except at apex dark brown; the basal line black, geminate, indistinct; the antemedial dark brown, sinuate, a dark median transverse shaded, angled below costa; the postmedial fine wavy, dark brown inwardly shaded with violaceous and outwardly followed by two rows of dark points; the dark terminal space preceded by a wavy violaceous line, a bright yellow spot in the reniform. Secondaries brown, the fringe reddish. Underneath grayish brown; a dark postmedial spot on costa of primaries. Secondaries with a discal spot and postmedial line. Expanse, 21 mm.

Habitat: Orizaba, Mexico.

Hadena orizabena, sp. nov.

Head and thorax violaceous brown; abdomen light brown. Primaries violaceous brown; the central portion of median space darker; some dark scales at the base; the antemedial line paler, irregularly oblique from costa to a paler space on the middle of inner margin; the postmedial similar, slightly sinuate to middle of inner margin also, but not quite touching the antemedial line; orbicular very indistinct, reniform with a large white spot; a subterminal row of white points inwardly preceded by sagittate dark violaceous shadings. Some minute reddish brown spots on costa and

extreme outer margin; fringe dark violaceous brown. Secondaries light brown. Underneath light brown with a postmedial line and discal spot on secondaries. Expanse, 25 mm.

Habitat: Orizaba, Mexico.

Hadena zuelana, sp. nov.

Palpi, head and collar pale fawn in color. Thorax brown. Abdomen gray; dorsal tufts reddish brown. Primaries with the basal half brown, the outer half gray, the basal half sometimes mottled with paler shades; the antemedial and medial lines fine, geminate, very indistinct; the postmedial line fine, dark, very wavy and twice sinuate beyond the cell; the apex darker, with a lunate subapical line outwardly shaded with white; some dark subterminal shadings at the inner angle; the spots indistinct and faintly outlined. Secondaries with the basal half white, the outer half black. Expanse, 34 mm.

Habitat: Aroa, Venezuela.

Out of eight specimens I have of this species no two are absolutely alike and the variation is greater than the description implies.

Eurois bertha, sp. nov.

Head and thorax mottled brown and white. Abdomen light brown. Primaries brown. A pink spot at the base; the basal line white, inwardly shaded with dark brown; the antemedial and postmedial lines fine white, the basal and postmedial spaces slightly speckled with white. On median space the median and submedian veins pink; the spots circled with white; the orbicular dark brown, the reniform in the shape of 8, pink and brown; a dark brown space between the spots and a dark brown spot beyond the reniform. The terminal space mottled with light brown, some subterminal black streaks; a terminal dark line interrupted on the veins. Fringe mottled with gray. Secondaries brown, fringe partly white. Expanse, 30 mm.

Habitat: Castro, Parana.

Eurois orbiculata, sp. nov.

Palpi yellow, laterally brown. Head yellow. Collar and throat mottled yellow and gray. Primaries mottled white and olivaceous brown; the basal line dark olive, the antemedial white, interrupted, and outwardly bordered with a black line; a dark olive space in the cell between the spots. The orbicular small, white; the reniform large, mottled gray and white; the postmedial dark, fine, crenulate, angled beyond the cell, inwardly shaded with white; a subterminal wavy greenish white shade; a terminal black line inwardly shaded with white and interrupted in the veins. Fringe olivaceous with pale streaks opposite the veins. Secondaries light brown. Underneath primaries brownish. Secondaries gray with discal spot, postmedial and subterminal shading. Expanse, 34 mm.

Habitat: Castro, Parana.

Platysenta obscura, sp. nov.

Head, collar and thorax black. Abdomen brown. Primaries black, brown along the inner margin, in the cell and towards apex. A velvety black streak at base

below median vein, some indistinct subterminal brown streaks between the veins. Orbicular brown, outlined in velvety black. Reniform, small, round whitish circled with black and crossed with two black lines; a terminal black line, fringe mottled brown and gray. Secondaries white, the veins black on the outer margin. Expanse, 33 mm.

Habitat: Orizaba, Mexico; Sao Paulo, S. E. Brazil.

Stibadium corazona, sp. nov.

Body gray. Primaries apparently gray, the ground color being olive brown, very thickly irrorated with whitish scales. The antemedial line fine, pale, nearly straight; the postmedial pale, angled beyond the cell and then straight to inner margin, above which it is inwardly shaded with olivaceous; a pale subterminal shade straight from apex to angle of postmedial, then wavy to inner angle. Secondaries grayish brown, with an indistinct subterminal pale line. Expanse, 35 mm.

Habitat: Orizaba, Guadalajara, Mexico.

Stibadium jalada, sp. nov.

Head and thorax rufous. Abdomen brown. Primaries olivaceous brown, thickly speckled with lilacine scales, the outer margin paler; the lines fine olive brown, devoid of lilacine scales; the antemedial angular, the postmedial forming a large curve beyond the cell; the medial line geminate, indistinct. Secondaries grayish brown, with a fine postmedial line. Expanse, 33 mm.

Habitat: Guadalajara, Mexico.

Plagiomimicus musculus, sp. nov.

Head and thorax light gray, abdomen light brown. Primaries mouse gray; an indistinct antemedial whitish line angled at the cell; a broad white band indistinctly divided by a grayish line from the costal margin close to the apex to just beyond the middle of inner margin. Secondaries grayish white. Primaries below grayish. Secondaries below white, speckled with gray on the costal margin. Expanse, 24 mm.

Habitat: Oaxaca, Mexico.

Grotella dulcita, sp. nov.

Body and primaries bright silky yellow. Secondaries dark gray, the fringe yellow. Underneath primaries dark gray with the costal margin and fringe yellow. Secondaries below light gray. Expanse, 23 mm.

Habitat: Guadalajara, Mexico.

Eustrotia malonia, sp. nov.

Palpi black. Head and collar white. Thorax and abdomen brownish yellow speckled with white. Wings pale creamy brown. Primaries with a black spot at the base of the costa; an antemedial white wavy band, spotted with yellow, and starting from a conspicuous black spot on the costa; the postmedial line fine, white, shaded with brown and also starting from a black costal spot, then curved beyond the cell, and wavy to the inner margin; a heavy white subterminal shade; an interrupted terminal black line; fringe grayish brown, spotted with white. Secondaries pale

brown, shaded with white at the base and along the inner margin ; a terminal dark line ; fringe mottled brown and white. Expanse, 22 mm.

Habitat : Sao Paulo, S. E. Brazil.

GEOMETRIDÆ.

Pityeja picta, sp. nov.

Head and thorax cream color, the latter speckled with reddish brown ; abdomen cream color. Primaries with the base cream color defined by a reddish oblique line ; the antemedial line very oblique to the centre of the inner margin, reddish brown ; the space before it light brown mottled towards the base with white ; the postmedial line nearly straight from costa to vein 4, and then forming an inward curve to near the inner angle ; the median space white crossed by reddish brown veins and some transverse striæ especially in the cell ; beyond the postmedial line the wing is dark gray shading to reddish brown on the outer margin, mottled with darker striæ ; near the apex some reddish spots. In the ♀ the dark basal and postmedial spaces are thickly spotted with white. Secondaries white, the inner and outer margins, especially about the anal angles, light reddish brown with some grayish striæ. A terminal blackish line, and a black spot on the prolongation between veins 3 and 4. Expanse, 29 mm.

Habitat : Jalapa, Mexico.

Ophthalmophora fasciata, sp. nov.

Body brown. Primaries dark brown, crossed by a broad median yellow band, very wide on the costal margin, narrowing at the median vein and then widening slightly to the inner margin ; some yellow spots on the extreme margin and fringe yellow, except from veins 2–4, where it is brown. Underneath the same but no spots on the margin except at anal angle. Secondaries above dark brown ; the apex, outer margin and fringe yellow ; a subterminal silvery line and four postmedial ocelli black, circled with yellow and containing some silvery scales. Underneath the same but without the ocelli or silvery line. Expanse, 23 mm.

Habitat : Castro, Parana.

This species is closely allied to *O. asopis* Druce.

Aplogompha chotaria, sp. nov.

Body yellow ; two longitudinal brown streaks on thorax. Abdomen with brown spots and transverse lines. Primaries yellow with transverse rows of small quadrate brownish spots ; basal, subbasal, antemedial and medial complete ; the postmedial and subterminal rows coalescing between veins 4, 5 and 6, and represented by a single spot on the inner margin ; a terminal row of smaller spots. The spots along the costa, the terminal and some of the subterminal spots shaded with metallic scales. Secondaries yellow with similar rows of spots, the terminal and subterminal rows also shaded with metallic scales. Expanse, 16 mm.

Habitat : Jalapa, Mexico ; Aroa, Venezuela.

Bapta ruptilinea, sp. nov.

Primaries silky white, thickly irrorated with creamy scales and sparsely speckled with dark brown. An indistinct antemedial shade not reaching the costa ; the post-

medial shade broad, interrupted between the veins giving it a denticulate appearance; a terminal row of black poin's. A black point in the cell. Secondaries similar but with only the postmedial shade, which does not reach the costal margin and is most distinct on the inner margin. Expanse, 26 mm.

Habitat: Castro, Parana.

Allied to *B. hebetior* Warr, from the same locality.

Lozogramma (?) setaria, sp. nov.

Wings pale silky grayish brown. An almost imperceptible wavy brown antemedial line; a minute discal point; a postmedial straight brown line edged on either side with dark brown. Secondaries with a trace of a postmedial line on the inner margin. Expanse, 23 mm.

Habitat: Castro, Parana.

Semiothisa oaxacana, sp. nov.

Wings entire, very pale reddish brown, darker beyond the postmedial line, thinly speckled with dark brown scales; the veins and a postmedial line buff, the latter straight on the primaries, slightly wavy on the secondaries; traces of a fine medial line on the primaries. A minute black spot in the cells, terminal black points between the veins, underneath the same. Expanse, 26 mm.

Habitat: Oaxaca, Mexico.

Microgonia gilva, sp. nov.

Pale yellow, tinged with green, the basal and medial space on primaries somewhat grayish, iridescent. An irregular antemedial black line edged with whitish scales; a minute black discal point; the outer line fine, black, outwardly bordered with white, angled near apex and then slightly wavy to middle of inner margin; this line is continued on secondaries where it is still more wavy; the outer margin with lilacine striæ and three subterminal cuneiform marks; a wavy lilacine subterminal shade on secondaries. Underneath primaries bright yellow, except inner margin which with secondaries is grayish; the outer line brownish, broadly shaded outwardly with white on the primaries; on the secondaries it is perpendicular from costal margin to below cell where it forms a large curve to centre of inner margin. Expanse, 56 mm.

Habitat: Castro, Parana.

Allied to *M. mexicata* Gn., but readily distinguished by color, wavy line on secondaries and absence of glaucous spot on inner margin of primaries.

Microgonia fulcata, sp. nov.

♂ olive green, ♀ dark brown. Primaries very acute as in *platypterata* Gn.; a fine basal line; an antemedial line oblique from costa to median vein, then slightly wavy, perpendicular to inner margin; a minute discal point followed by an oblique dark shade from costa; outer line curved from costa to nearly outer margin, then angled and inwardly oblique to inner margin at two-thirds from base; this line is heavily marked and dark brown followed by a narrow pale shade and is continued on the secondaries to middle of inner margin; there is also an angular subterminal shade

on secondaries. Underneath the wings are grayish in the ♂ with brownish mottlings; the outer margin on primaries and apex being dark brown. In the ♀ underneath wings are dark brown suffused with lilacine; the primaries with a white mark before the apex, and some postmedial white spots on secondaries. Expanse, ♂, 57 mm.; ♀, 67 mm.

Habitat: Castro, Parana.

This species is very distinct.

Azelina castraria, sp. nov.

Antennæ simple. Wings hardly dentate. Body and primaries dark greenish gray shaded with buff in the cell. The inner line wavy, oblique from the costa at a third from the base to the inner margin beyond the middle and nearly contiguous to the outer line which is nearly straight and runs parallel with the outer margin. Both lines finely velvety brown, shaded with olive green which nearly fills the base of the V formed by the two lines. A minute black discal point. The outer line is outwardly shaded with lilacine, then with a dark greenish shade and finally with pale buff. All these colors running into each other. Secondaries buff, speckled with dull greenish gray. The inner margin and anal angle reddish brown. A submarginal dark shade, divided by a faint buff line. Underneath grayish, the costal half of each wing reddish brown, mottled with gray. An indistinct white outer line and a black discal spot on the secondaries. Expanse, 33 mm.

Habitat: Castro, Parana.

Nearest *Azelina scitaria* Obt.

Subfamily ASCOTINÆ.

Psilopora thesea, sp. nov.

Wings gray, thinly speckled with dark brown, the lines dark brown: the antemedial fine, perpendicular to subcostal, then a curve to near submedian and then inwardly oblique to inner margin. A dark discal point; beyond this a curved median line and a wavy punctiform postmedial line; the space between these two lines filled in with dark brown from inner margin to vein 4; a fine reddish shade beyond postmedial and a darker subterminal grayish line; a terminal row of black points. Secondaries with a broad dark median fascia from inner margin, slightly bifurcating at cell and not reaching costal margin; a postmedial punctiform line, followed by two fine reddish shades; the margin darker gray. Expanse, 26 mm.

Habitat: Castro, Parana.

Physocleora tascaria, sp. nov.

Wings white, finely powdered with light brown, lines fine, indistinct and interrupted, marked by larger spots on the costa; the postmedial punctiform, the largest spot being between veins 3 and 4 and is followed by a bright yellow spot, a terminal row of dark points. Secondaries with the lines more distinct, the basal fine, wavy; the median distinct, just beyond the cell spot, and geminate; a postmedial and subterminal grayish shade; terminal spots between the veins. Underneath primaries

dark gray, secondaries sordid white, discal spots and terminal wavy dark line. Expanse, 21 mm.

Habitat: Castro, Parana.

Physocleora obscura, sp. nov.

Wings gray in the ♂, light brown in the ♀; the basal space and costa grayish, the former limited by a dark line, nearly straight. A perpendicular fine median line; the postmedial wavy, geminate, the space within filled in with reddish brown; the margin mottled brown and gray with an irregular angular white subterminal line, enclosing some cuneiform black marks. Secondaries heavily powdered with gray; the antemedial line heavy, dark gray, the postmedial fine, indistinct, followed by reddish brown shadings. A terminal dark line on both wings, thickened between the veins. Underneath gray, primaries with a basal, median, postmedial and subterminal dark lines, the latter outwardly shaded with white. Secondaries with a broad antemedial band and a fine postmedial line. Expanse, ♀, 21 mm.

Habitat: Castro, Parana.

Physocleora punctilla, sp. nov.

Wings white with a few black speckles; lines black; the antemedial forming a large curve, the space within being shaded with light brown; a black median spot on costa and a small discal spot below it; the postmedial line fine wavy, followed by a distinct reddish brown shade; the marginal space heavily shaded with dark gray, divided by a subterminal white angular line; a terminal row of black points. Secondaries the same, but with the discal spot larger and more distinct. Underneath gray, the margins broadly darker. A postmedial punctiform line and discal spots. Expanse, 15 mm.

Habitat: Castro, Parana.

Stenalcidia nortonia, sp. nov.

Pale gray, speckled with brown scales. A fine antemedial line, punctiform on subcostal and median veins; an oblique median yellowish line not extending above cell; a postmedial punctiform line nearly straight from near apex to middle of inner margin, followed by a broad smoky shade; margin darker with a terminal row of dark points. Secondaries with a broad antemedial dark band; the postmedial line fine, followed by two reddish gray lines; a terminal row of black points. Underneath darker gray; on the primaries a straight postmedial line, and on the secondaries an antemedial band and postmedial line; the lines somewhat punctiform. Expanse, 26 mm.

Habitat: Castro, Parana.

Described from a well-marked ♂. The secondaries are slightly excavated below apex with a slight tooth at vein 4 and then the margin is straight to anal angle.

Stenalcidia cindica, sp. nov.

Wings whitish thinly powdered with gray; lines dark brown; the antemedial slightly curved and inwardly oblique to inner margin, marked by a large dark spot on costa, a smaller one on median vein and inner margin, preceded by an oblique

light reddish brown shade; the median line less distinct, wavy, and slightly curved, marked by a dark spot on costa; the discal point forms part of the line; the postmedial line thickened in places, slightly curved to below vein 2 where it touches the median line and then perpendicular to inner margin; this line is followed by a light reddish brown shade; a subterminal lunular white line heavily shaded with dark gray on either side, especially between veins 4 and 6; beyond this the veins are shaded with light reddish brown; a terminal row of black triangular spots between the veins; fringe pale, spotted with gray. Secondaries with an antemedial line straight; discal spot distinct; postmedial finely acute, followed by a broad reddish brown shade; subterminal line dark gray, angular; beyond this a row of triangular grayish spots filled in with reddish brown; a terminal black line, thickened between the veins. Underneath sordid white with antemedial and postmedial punctiform lines, the fringe also distinctly spotted. Expanse, 28 mm.

Habitat: Castro, Parana.

The female is larger, more thickly irrorated with gray, and the lines very fine and punctiform.

Tephrina submarcata sp. nov.

Wings above sordid white, irrorated with brown scales; the lines hardly perceptible, but strongly marked by four brown blotches on costa of primaries; a brown discal spot; fringe brown, at inner angle buff; a terminal row of dark spots between the veins. Secondaries more heavily irrorated with brown along the outer margin; a faint postmedial line and subterminal shade; an interrupted terminal brown line; fringe buff. Underneath yellowish with strong brown mottling and striæ. The postmedial line straight and broad on primaries, punctiform on secondaries. Expanse, 26 mm.

Habitat: Guadalajara, Mexico.

Tephrina griseata, sp. nov.

Body and wings dull gray; fine antemedial, medial and postmedial lines, the latter closely followed by a dark subterminal shade not extending above vein 6; the lines marked by a dark spot on costa. The extreme costa mottled with buff. A small discal spot with pale centre. Fringe buff interrupted by darker scales. Secondaries with antemedial, postmedial and subterminal lines very indistinct. Underneath pale gray thickly clouded with darker gray. Expanse, 25 mm.

Habitat: Jalapa and Oaxaca, Mexico.

Tephrina guadarana, sp. nov.

Wings dove color, the veins yellowish; costa yellowish with some black striæ; a curved antemedial yellowish line, inwardly shaded with black; a straight postmedial yellowish line, outwardly shaded with black, at four fifths and parallel to the outer margin. Secondaries with a straight postmedial yellowish line not reaching the costal margin. A blackish discal spot in cells of both wings. Underneath buff, powdered with gray. Expanse, 31 mm.

Habitat: Oaxaca and Guadalajara, Mexico.

This species comes nearest to *T. irrorata* Pack.